

By working together with VDOT, STAR Solutions will provide the answers to I-81's safety and congestion problems:

- A total solution for the entire I-81 corridor
- A model Public-Private Partnership
- A safer solution with physical barriers separating heavy trucks and passenger traffic
- An intermodal approach
- A realistic and sound financial plan
- A long-term pavement warranty

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SAFETY



PARTNERING



FINANCING



Working with VDOT to Make I-81 Safer for Everyone

Executive Summary

Working with VDOT to Make I-81 Safer for Everyone



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When I-81 was first constructed, no one could have predicted that it would become what it is today – one of the busiest trucking corridors in the U.S. With the dramatic growth in passenger and freight traffic, accidents and congestion are all too frequent. By working together with VDOT, the STAR Solutions team will develop a plan that will significantly improve traffic flow and public safety.

By incorporating VDOT's ideas over the past few months, we have improved our conceptual proposal by:



- Modifying our innovative concept of separating passenger vehicles and heavy trucks by adding physical barriers
- Developing a partnering plan to work together with VDOT from the inception to project completion
- Enhancing intermodal options, building into our concept the flexibility to incorporate ideas of the VRPT's study, aimed at improving mobility and air quality and reducing congestion
- Working with freight rail companies to identify improvements that may be made that will divert a portion of the freight off the highway

Our team brings the manpower and resources to provide immediate safety enhancements to help save lives.

STAR Solutions believes that by working with VDOT, we will develop a solution for I-81 that will last for years to come – not one that will require additional improvements shortly after construction is completed.

With VDOT's primary goal of safety in mind, we propose to deliver this project with minimal interference to ongoing traffic.

Our team brings the manpower and resources to provide immediate safety enhancements to help save lives, including truck climbing lanes, longer on- and off-ramps, and "smart" electronic signage and communication systems.



Partnering



We want to create a true partnership with VDOT to develop the best concept for I-81.

STAR Solutions recognizes the importance of the various stakeholders for the I-81 project, including VDOT, local governments and others who have a vested interest in this project. We also recognize that strong teams are created by working together, forming synergies by sharing experiences and resources. Therefore, we want to create a true partnership with VDOT to develop the best concept for I-81 should our team be selected to go to Phase 2.

To accomplish this, we offer to immediately hold a partnering session between VDOT and our team to begin working together. Though our team is fully capable of handling the design for the entire corridor, we want to develop a working design partnership between VDOT and STAR Solutions to capitalize on all respective project experience and local knowledge. By doing so, VDOT and STAR Solutions will develop a model Public-Private Partnership.



Financing



Our team has been working towards identifying new federal funding specifically for I-81.

With the current budget constraints facing the Commonwealth, traditional financing methods are not an option to improve the I-81 corridor. The STAR Solutions' finance plan provides new revenues based on user fees as well as other innovative funding streams.

Our team has been working towards identifying new federal funding specifically for I-81. Congressman Don Young, Chair of House of Representatives Committee on Transportation and Infrastructure, is an avid supporter of the separation of cars and heavy truck traffic and looks forward to seeing this design become a reality in the United States.

Our concept, in addition to tolls on heavy commercial vehicles, identifies state and federal funds that provide a unique opportunity to improve the entire I-81 corridor over 15 years, without detrimentally affecting other transportation priorities. The funding plan uses approximately \$169 million of VDOT's unexpended allocations shown in the current Six-Year Improvement Plan for projects identified in the I-81 corridor. We believe that our phased approach to this \$6.25 to \$7.75 billion transportation improvement offers a realistic means of completing the project without the surprise of a revenue shortfall in the outer years. We have assumed that VDOT will continue to provide the funding to maintain the I-81 corridor. The final cost will be subject to the ultimate scope of the improvement as determined by VDOT during negotiations of the Comprehensive Agreement.

2004

ACCIDENT ON I-81
6 MILES AHEAD
LEFT LANE BLOCKED

SAFETY



- Improve traffic flow and public safety
- Separate passenger vehicles and heavy trucks using physical barriers
- Enhance intermodal options
- Add truck climbing lanes, longer on- and off-ramps and ITS systems

PARTNERING



- Hold partnering sessions between VDOT and STAR Solutions
- Capitalize on synergies of project experience and local knowledge
- Develop a model Public-Private Partnership

FINANCING

2018

- Innovative financial plan
- Improve the entire I-81 corridor in 15 years
- Complete the project without a revenue shortfall in later years